FIGURE 1

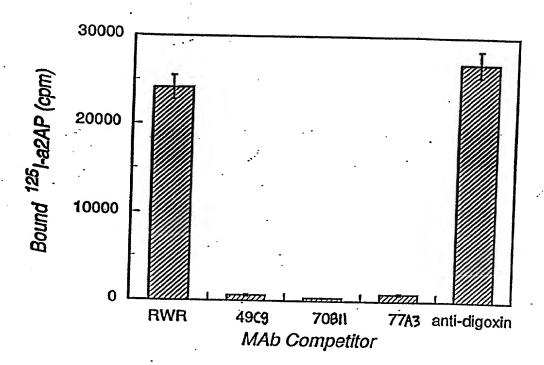


FIGURE 2

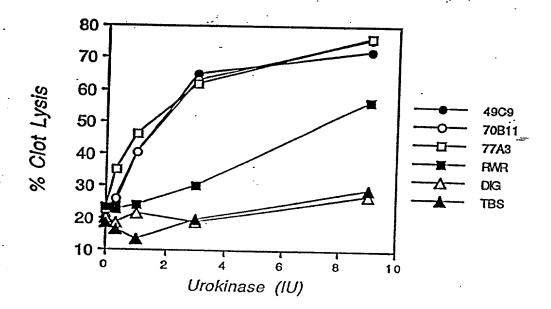


FIGURE 3

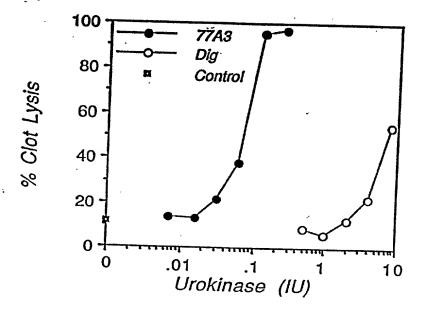
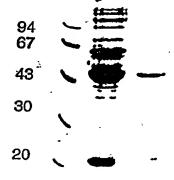


FIGURE 4



Std Ascites 77A3

FIGURE 5

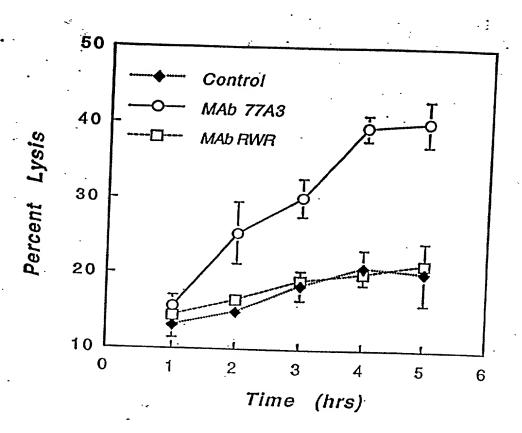


FIGURE 6

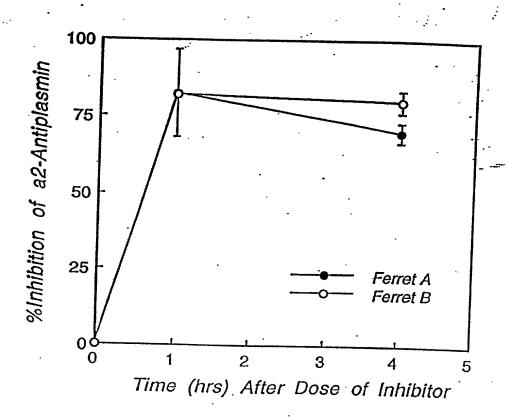


FIGURE 7

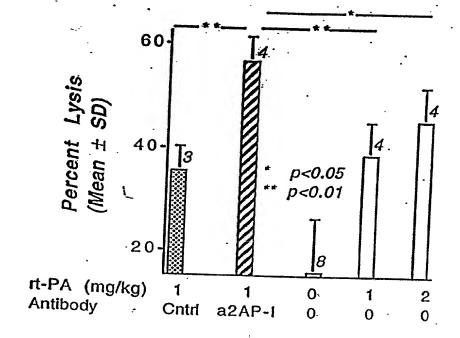


FIGURE 8

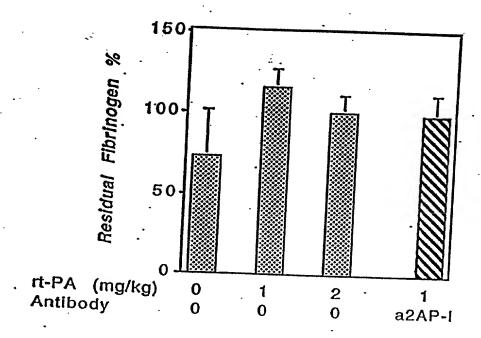


FIGURE 9

Fig. 10

MAb Light Chain

Amino Terminal Sequence

49C9

xIQMTQSPASLSASV

70B11

DIQMT

77A3

xIQMTQSPASLSASV

		1	o			20)		3	0			4	0			-				
			*			*		G		-				*			50				60
ATG	AG:	TGTG	C. T	CAC	TCA	GGT	ССТ				- VIIV	Z/wh			100		1	•			* ATGT
М	s	v	T.	q.	0	71	т.		T.	•	- I.	301	GCIG	ıı e	iGC1	TAC	AGG	TG	CC	AG	ATGT
		•	_	?	×	•	Ĺ				11	L	L.	W	I	1	. 6	}	A	R	C>
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		•	-			*			90				10				110	•			120
GAC	ኒውጥረ	יריא פיז	`` \ ¶V	32.00													*				*
D	T	CAG? Q	. M	anc.	CAC	stc ^	TCC	AGC	CTCC	2 0	TA	TC:	rgca'	I C	TGT	GGG	AGA	AA	CTG	TC	ACC
2	_	Q	141	T	Q	S	P	A	S		L	S	A	S	v	G	E	•	r	V	T >
		130			1	L40			150)			160)			170				180
		*				*			*				1				*				*
ATC.	ACA	TGTC	: G <i>I</i>	(GCA	AGI	rgg	GAA'	rat:	rcac	: A	AT	TAT	ATT	3 C2	ATG('ATE	rca	GCA	GA	AΑ	CAG
1	T	C	R	A	s	G	N	I	H		N	Y	'L	A	W	Y	Q	Ç			Q>
				•								,									~
		190			2	00			210				220	,		2	230				240
		*				*			*				*				*				
GGA	AAA	TCTC	CT	'CAG	CTC	CT	GGTC	TAT:	TAAT	G	CAI	AA	ACCI	TA	GCA	GAT	'GG	TGT	GCO	ימי	דיריז <i>ו</i>
G	K	s	P	Q	L	Ľ	v	Y	N	1	A	ĸ	${f T}$	L.	A	D	G	v	1)	CA.
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		*				*			*				*			2				3	300
AGGT	TC	AGTG	GC	AGT	GGA'	TC	AGGA	ACA	CAA	TI	TT	CTC	מחדיי	aa	አጥጣ	א א מ	n	aa	~ ~ ~		*
R	F	s	G	s	G	s	G	т	0	F	7	S	τ.	D D	T.	MAL.	AG				
									~	_		•		K	7	1/1	8	L	Q)	P>
		310			3.	20			220												
		*			٠,								340			3	50			3	60
GAAG	AT	rtta	GG:	איניטע									*				*				*
GAAG E	D	F	ري د		TT.	1.AL 1	CIGI	CAA	CAT'	TT	TT.	GGA	CCA	CT	CCG:	rgg	AC (GTT C	:GG	TG	GA
_	_	F	. G	3	n	x	С	Q	H	F	•	W	T	T	P	W	Т	F	G	,	G>
		370			36	30	•														

GGCACCAAGC TGGAAATCAA A

G T K L E I K

Fig. 12

10	20	30	40	50	60
*	*	*	*	*	*
ATGAGTGTGC	TCACTCAGGT	CCTGGGGTTG	CTGCTGCTGT	GGCTTACAGG	TGCCAGATGT
M S V	LTQV	r G r	LLL	WLTG	A R C>
				•	
70	. 8Ò	90	100	110	120
		*		. 110	
CA CATICOACA	-				* AACTGTCACC
D I Q	мтуѕ	PAS	L S A	SVGE	T V T>
					. •
130	140	150	160	170	180
*	*	*	*	*	*
GTCACATGTC	GAGCAAGTGG	GAATATTCAC	AATTATTTAG	CATGGTATCA	GCAGAAACAG
V T C	R A S G	иін	NYL	A W Y Q	Q K Q>
190	200	. 210	220	230	240
*	*	*	*	*	*
GGAAAATCTC	CTCAGCTCCT	GGTCTATAAT	GCAAGAACCT	TAGCAGATGG	TGTGCCATCA
G K S	P Q L L	V Y N	A R T	L A D G	V P S>
250	260	270	280	. 290	300
*	*	*		. 250	
AGGTTCAGTG	GCAGTGGATC		TATTCTCTCA		7
			Y S L		
K F S	G 5 G 5	G I Q	1 2 11	r I N 2	ц Q P>
310	•		340		360
*	*	*			
GAAGATTTTG	GGAGTTATTA	CTGTCAACAT	TTTTGGAGTA	ATCCGTGGAC	GTTCGGTGGA
E D F	G S Y Y	C Q H	F W S	N P W T	F G G>
370	380				

370 380

* *

GGCACCAAGC TGGAAATCAA

		10				20			30			40				50			60
		*				*			*			*				*			*
ATG	AGT	GTGC	TC	ACT	CAG	GT	CCTG	GCG	TTG	CTG	CTG	CTGT	GG	CTI	ACA	.GG	TGCC	'AGA	TGT
M	s	v	L	T	Q	v	L	A	L	L	L	L	W	L	T	G	·A	R	C>
	•												:			:			
		70			-	80			90			100			. 1	1.0			120
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D	I						P							v	-	E		v	
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		130			1	40			150			160				70			180
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							GAAT										GCAG	AAA	CAG
Ι	T	С	R	A	s	G	N	Ι	H	N	Y	L	A	M	Y	Q	Q	K	Q>
	ŕ	190			2	00			210			220			2	30			240
		*				. *			*			*				*			*
GGA	AAA	TCTC	CT	CAA	CTC	CT.	GGTC	TAT	TAA	GCA	AAA	ACCT	TA	GCA	GAT	GG	TGTG	CCA	TCA
G	K	s	P	Q	L	ь	v	Y	И	A	K	T	L	A	D	G	v	P	S>
																	•		
		250			2	60			270			280			2	90			300
		*				*			*			*		•		*			*
AGG'	TTC	AGTG	GC	AGI	'GGA	TC	AGGA	ACA	CAA	TTT	TCT	CTCA	AG.	ATC	AAC	AG	CCTG	CAG	CCT
R	F	s	G	S	G	S	G	T	Q	F	s	L	ĸ	I	N	s	L	Q	P>
		310			3	20			330			340			3	50			360
		*				*			*			*				*			*
GAA	GAT	TTTG	GG	AGT	יכאיז	Α'n	CTGT	יבא בי	ידאיזי	ւեւեւեւ	TGC	ACCA	ر ښ	רירים			ርምጥ		
E	D	F	G	s	н	Y	C		Н	F	W	T	T	P	W	т	F	G	
	~	•	J	3	**	•	C	×	*1	£	**		_	E	•4	1	r	G	G>

370 380

GGCACCAAGC TGGAAATCAA A

G T K L E I K

H2 HC (49c9 heavy chain) Fig. 14

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200		~~~			*				*			•••		~~~			. .		*
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	D				T														
		69			79				89			99			109			1	19
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															AACAG				
1	Q	L	v	Q	S	G	P	E	L	ĸ	K	₽	G	E	T	v	K	I	S>
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		129			139			1	.49			159			169			1	79
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		eecc													GGTGF				
C	K	A	S	· G	Y	T	F	T	N	Y	G	M	N	W	V	K	Q	A	P>
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		189			199			2	209			219			229			2	39
		•			*				*			*	7		4	r			*
3000					~~~														
											_				AGAGO				
		GGGT - G	TTA L	AAG K	tigga W	T O		TGG W	TA: I	AAA N	ACC T		AG S			CA P	ACA T		
		G	L		W			W	Ι		_	ĸ	S		E	P		Y	A>
			L		₩ 259			W	1 69		_	K 279	ន		E 289	P		Y	
G	K	- G 249 ★	L	ĸ	W 259 *	М	G	W 2	1 69 *	N	T	K 279	s	G	E 289	P	T	¥ 2	A> 99 *
G TGA	K AGA	G 249	L AAG	k GG <i>P</i>	W 259 * CGGT	M	g TGT(	W 2 CTTC	1 69 * TC	N	T GAZ	279 * AACC	s TC	G TGC	E 289 CAGCA	P	T GCC	Y 2 CAT	A> 99 * TT
G	K AGA	G 249	L	ĸ	W 259 *	М	G	W 2	1 69 *	N	T	K 279	s	G TGC	E 289	P	T	¥ 2	A> 99 *
G TGA	K AGA	G 249 * GTTC F	L AAG K	k GG <i>P</i>	W 259 * CGGT R	M TT	G TGT( V	W 2 CTTC F	1 :69 * TC S	n TTTC L	T GGA! E	X 279 * AACC	S TC	G TGC	E 289 * CAGCF S	P A CI	T GCC	Y 2 CAT H	A> 99 * TT L>
G TGA	K AGA	249 * GTTC F	L AAG K	k GG <i>P</i>	W 259 * CGGT	M TT	G TGT( V	W 2 CTTC	1 :69 * TC S	N	T GGA! E	X 279  *AACC T 339	S TC S	G TGC	E 289 CAGCA S 349	P A CI T	T GCC	Y 2 CAT H	A> 99 * TT L> 59
TGA E	K AGA E	249  * GTTC  F  309	L AAG K	K GGP G	259 * *CGGT R 319	M TT F	G TGT( V	W 2 CTTC F 3	1 269 * TC S	TTTC	T GAA E	X 279 ** *AACC T 339	S TC	G TGC A	E 289 CAGCA S 349	P CT T	T 'GCC A	Y 2 CAT H 3	A> 99 * TT L> 59 *
TGA E GCA	AGA E GAT	249  # GTTC  F  309  * CAAG	L AAG K	K G G	W 259 ** ** ** ** ** ** ** ** **	M TT F	G TGT( V	W 2 CTTC F 3	1 69 *TC S 29 *	N TTTO	T E E	X 279 *AACC T 339 *ATAT	S TC S	G TGC A CTG	E 289 CAGCF S 349	P CI T	T GCC A	Y 2 CAT H 3	A> 99 * TT L> 59 * CC
TGA E	AGA E GAT	G 249  ** GTTC  F 309  * CAAG	L AAG K	K GGP G	259 * *CGGT R 319	M TT F	G TGT( V	W 2 CTTC F 3	1 269 * TC S	TTTC	T GAA E	X 279 ** *AACC T 339	S TC	G TGC A CTG	E 289 CAGCA S 349	P CT T	T 'GCC A	Y 2 CAT H 3	A> 99 * TT L> 59 * CC
TGA E GCA	AGA E GAT	G 249  * GTTC  F 309  * CAAG	L : AAG K : AAT	K G G	W 259 * CGGT R 319 * CAGAA	M TT F	G TGT( V	W 2 CTTC F 3 GGAC	1 69 * TC S 29 * AC	N TTTO	T E E	X 279 *AACC T 339 *ATAT	S TC S	G TGC A CTG	E 289 CAGCA S 349 * TGCAA	P CT T	T GCC A	Y 2 CAT H 3	A> 99 * TT L> 59 * CC
TGA E GCA	AGA E GAT	249  * GTTC  F  309  * CAAG	L : AAG K : AAT	K G G	259 ** *CGGT R 319 ** *AGAA R	M TT F	G TGT( V	W 2 CTTC F 3 GGAC	1 69 * TC S 29 * AC T	N TTTO	T E E	X 279 ** *AACC T 339 ** *ATAT Y 399	S TC S	G TGC A CTG	E 289 CAGCA S 349 TGCAA A	P CT T GA GA	T GCC A	Y 2 CAT H 3	A> 99 * TT L> 59 * CC
TGA E GCA	AGA E GAT	249  249  GTTC  F  309  CAAG  K  369	L AAG K AAT N	K G G TTC F	259 ** *CGGT R 319 ** *AGAA R 379 *	M F F	G V V TGAG E	W 2 CTTC F 3 GGAC D	1	TTTC L GGCT	T E E TACI	X 279  *AACC T 339  *ATAT Y 399 *	S TC S	G TGC A CTG	E 289 ** CAGCF S 349 ** TGCAF A 409	P CT T R	T GCC A TGG W	Y 2 CAT H 3 GTA V	A> 99 * TT L> 59 * CC
TGA E GCA	AGA E GAT I	249  * GTTC  F  309  * CAAG	L AAG K AAT N	K G G TTC F	259 ** *CGGT R 319 ** *AGAA R 379 *	M F F	G V V TGAG E	W 2 CTTC F 3 GGAC D	1	TTTC L GGCT	T E TACA T	X 279  *AACC T 339  *ATAT Y 399 *	S TC S	G TGC A CTG C	E 289 CAGCA S 349 TGCAA A	P CT T R	T GCC A	Y 2 CAT H 3 GTA V	A> 99 * TT L> 59 * CC

H3 HC (70B11 heavy chain) Fig. 15

		10				20			30			40 *				50			60
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All	2014IT	1.666	1.0	Tar	zem(	LT.	GCTA	ATTO	CCTG	ATG	GCZ	AGCTG	CC	CA	\AG	TAT	CCA	AGC.	ACAG
M	D	w	V	w	1/1	T	Ţ	F.	L	M	A	A	A	Q	S	I	Q	A	Q>
	D	70			T	~~													
		/0				*						100			1	L10			120
T) (T)	7070			~~~	· · ·							*				*			*
ATC	CAG	TTGG	TG	CAG	TCI	'GG	ACCI	'GA	GCTG	AAG	AAC	CCTG	GA	GAC	AC	\GT	CAA	SAT	CTCC
+	Q	ъ	V	Q	S	G	₽	E	L	K	K	P	G	E	T	v	K	I	S>
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		130		-	1	.40			150			160 *			1	170			180
mar		• • • • • • • • • • • • • • • • • • • •				*			*			*				*			*
TGC	JAAG	GCTT	CT	GGG	TAI	AC	CTTC	AC	AAAG	TAT	GGA	ATGA	AC	TGG	GTO	ΆA	GCA	GC:	CCA
C	K	A	S	G	Y	T	F	T	ĸ	Y	G	M	N	W	v	K	Q	A	P>
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		190			2	00			210			220			2	30			240
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GG	AAAG	GGTT	TA	AAG	TGG	ΆT	GGGC	TG	ATA	AAC	ACC	AACA	GT	GGA	GAG	CC	AACA	TAT	FGCT
G	K	G	${f L}$	K	W	M	G	W	I	N	T	N	S	G	E	P			A>
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		250			2	60			270			280 *			2	90			300
		*				*			*			*				*			*
GAZ	AGAG	TTCA	ΑG	GGA	.CGG	TT	TGCC	TTC	CTCT	TTG	GAA	ACCT	CT	GCC	AGC	AC	TGCC	יי בייף!	ייזייזייכ
$\mathbf{E}$	E	F	K	G	R	F	A	F	s	L	E	T							L>
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		310			3	20			330			340			3	50			360
		*				*			*			*				*			+
CAG	ATC	AACA	AC	CTC	AAA	AΑ	TGAG	GAC	TCG	GCT	ACA	TATT	TC	тст	GCA	D.C.	<b>ከጥ</b> ርር	CTT.	/ CCB
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		370			3	80			390			400			4	10			
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		*				_			-			*				*			
GGG	ACC'	* TATG	CT	ATG		_			-			*				*	ርሞሮክ		
GGG G	ACC'	* TATG Y	CT:	ATG M		TA	CTGG	GGT	-		ACC	* TCAG				* TC	CTCA S>		

H4 HC (77A3 heavy chain) Fig. 16

		10				20			30			40				50			60
מתכ	CMT	TGGG	TO C	maa	7 MC		CCTI	መጥረ		T) TI C	CON		cc	מתח	n ca		CONN	CON	
		W	v	W	And N	L	L												
M	A D	w	٧	W	ייף	ъ	1.	F	L	M	A	A	A	Q	S	Ι	Q	A	Q>
	D	70			-	80		,	90			100			1	10			120
		*				*			*			*				*			*
ATC		TTGG		CAG											ACA			ATC	TCC
I	Q	L	V	Q	S	G	P	E	L	K	K	₽	G	E	T	V	K	I	S>
		130			1	40									1	70			180
		*				*			*			*				*			*
TGC	AAG	GCTT	CT	GGG	TAT	AC	CTTC	ACI	AAC	TAT	GGA	ATGA	AC	TGG	GTG	:AA	GCAG	GCI	CCA
C	ĸ	A.	S	G	Y	T	F	T	N	Y	G	M	N	W	v	K	Q	A	P>
		190			2	00			210			220			2	30			240
		*				*			*			*				*			*
		COMM																	
GGA	AAG	GGTT	TA	aag	$\mathbf{T}\mathbf{G}\mathbf{G}$	ΑT	GGGC	TGG	ATA	AAC	ACC	AAGA	GT	GGA	GAG	CC	AACA	TAT	GCT
	AAG K	GGTT	TA L	aag K				TG0 W		AAC N	ACC T					CC P	AACA	TAT. Y	
					W			W	Ι		T	K 280	S	G	E	P	T	Y	A>
		G			W	M		W			T	K 280	S	G	E 2	P	T	Y	
G	K	G 250	L	K	<b>W</b>	M 60 *	G	W	1 270 *	N	T	K 280 *	s	G	E 2	P 90 *	т	Y	A> 300 *
G	K	G 250 *	L	K	W 2 CGG	M 60 * TT	G TGCC	W	I 270 *	N	T GAA	K 280 * ACCT	S	G	E 2 AGC	90 * :AC	TGCC	Y AAT	A> 300 * TTG
G GAA	K .GAG	G 250 * TTCA	L AG	K GGA	W 2 CGG	M 60 *	G TGCC	W	1 270 *	N	T	K 280 *	s	G	E 2	P 90 *	т	Y	A> 300 *
G GAA	K .GAG	G 250 * TTCA F	L AG	K GGA	W 2 CGG R	M 60 * TT F	G TGCC A	TTC F	1 270 * TCT S	TTG L	T GAA E	K 280 * ACCT T	S	G GCC A	E 2 AGC S	P :90 * :AC T	TGCC	Y TAA: N	A> 300 * TTG L>
G GAA	K .GAG	G 250 * TTCA	L AG	K GGA	W 2 CGG R	M 60 * TT	G TGCC	TTC F	1 270 * TCT S	TTG L	T GAA E	K 280 * ACCT T	S	G GCC A	E 2 AGC	P :90 * :AC T	TGCC	Y TAA: N	A> 300 * TTG
G GAA E	K .GAG E	G 250 * TTCA F 310 *	L AG K	K GGA G	W 2 CGG R 3	M 60 TT F 20	G TGCC A	TTC F	I 270 * TCT S 330	TTG L	T GAA E	X 280 * ACCT T 340	S CT S	G GCC A	E 2 AGC S	P .90 * AC T .50 *	TGCC A	Y AAT N	A> 300 * TTG L> 360 *
G GAA E CAG	K .GAG E	G 250 * TTCA F 310 *	AG K	K GGA G CTC	W 2 CGG R 3	M 60 TT F 20 *	TGCC A	TTC F	I 270 * TCT S 330 *	TTG L GCT	T GAA E ACA	K 280 * ACCT T 340 *	S CT S	G GCC A TGT	E 2 AGC S 3	P .90 * .AC T .50 * .AG	TGCC A	Y AAT N	A> 300 * TTG L> 360 *
G GAA E	K .GAG E	G 250 * TTCA F 310 *	L AG K	K GGA G	W 2 CGG R 3	M 60 TT F 20	G TGCC A	TTC F	I 270 * TCT S 330	TTG L	T GAA E	X 280 * ACCT T 340	S CT S	G GCC A	E 2 AGC S	P .90 * AC T .50 *	TGCC A	Y AAT N	A> 300 * TTG L> 360 *
G GAA E CAG	K .GAG E	G 250 * TTCA F 310 * AAGA K	AG K	K GGA G CTC	W 2 CGG R 3 AAA K	M 60 TT F 20 * AA N	TGCC A	TTC F	I 270 * TCT S 330 * ACG T	TTG L GCT	T GAA E ACA	K 280 * ACCT T 340 * TATT	S CT S	G GCC A TGT	E ZAGC S 3	90 * AC T :50 * AG R	TGCC A	Y AAT N	A> 300 * TTG L> 360 *
G GAA E CAG	K .GAG E	G 250 * TTCA F 310 *	AG K	K GGA G CTC	W 2 CGG R 3 AAA K	M 60 TT F 20 *	TGCC A	TTC F	I 270 * TCT S 330 * ACG T	TTG L GCT	T GAA E ACA	X 280 * ACCT T 340 * TATT Y 400	S CT S	G GCC A TGT	E ZAGC S 3	P * * * * * * * * * * * * * * * * * * *	TGCC A	Y AAT N	A> 300 * TTG L> 360 *
G GAA E CAG	K GAG E ATC	G 250 * TTCA F 310 * AAGA K 370 *	AG K AC N	K G G CTC L	W 2 CGG R 3 AAA K	M 60 * TT F 20 * AA N 80 *	G TGCC A TGAG E	TTC F	270 * 27CT S 330 * 2ACG T 390 *	TTG L GCT A	GAA E ACA T	X 280 * ACCT T 340 * TATT Y 400 *	S CT S TC F	G A TGT C	E ZAGC S 3 GCA A	P * * * * * * * * * * * * * * * * * * *	TGCC A ATGG	Y N OTP	A> 300 * TTG L> 360 *
G GAA E CAG	K GAG E ATC I	G 250 * TTCA F 310 * * AAGA K 370	AG K AC N	K G G CTC L	W 2 CGG R 3 AAA K	M 60 * TT F 20 * AA N 80 *	G TGCC A TGAG E	TTC F	270 * * * * * * * * * * * * * * * * * * *	TTG L GCT A	GAA E ACA T	X 280 * ACCT T 340 * TATT Y 400 *	S CT S TC F	G A TGT C	E ZAGC S 3 GCA A	P * * * * * * * * * * * * * * * * * * *	TGCC A ATGG	Y N OTP	A> 300 * TTG L> 360 *

## Figure 1-

### A THE WATER OF # \$ E דאכ דכא כאכ מאם דנא סדב כאם מאב כסב אאכ מאב מאם מאם אכם מאא זמד ככא כסם דכד אכי אום אפר סום בדכ אכד כאם סדכ כדם סכם זדם כדם כדם כדם קסם כדצ אכא סמו סככ אמא א GAR WAT F G G G T K L B I red and me core core acce acc and cre data are accepted and core core core are one cre to a h 77A3-1 and h 77A3 -2 LIGHT CHAIN .L1 L00p Signal Peptide h17/3/L D I Q M T Q S P S S L S A S V G D R V T I T C R A S G N I H N are and are can are can are can are and are and are not are and L S L3 Loop CΩ 1 S S L Q P B D F G S H Y C Q H F W T T P AND THE COMMON CONTINUES AND ACCOUNT OF THE COMMON ACCOU L2 L00p ATT TAN ATT GAT ATC TCC TIN GGT CTC GAG h TTA3V L h77A3VL Humanized (aa) . h77 A3VL. Humanized (aa) Humanized mt (sense) Humanized (aa) Humanized m (sense) Humanized m (anth-sense) Humanized (aa) Humanized nt (sense) Humanized nt (anti-sense) Humanized nt (anti-sense)

# h 7743-1 HEAVY CHAIN SEQUENCES

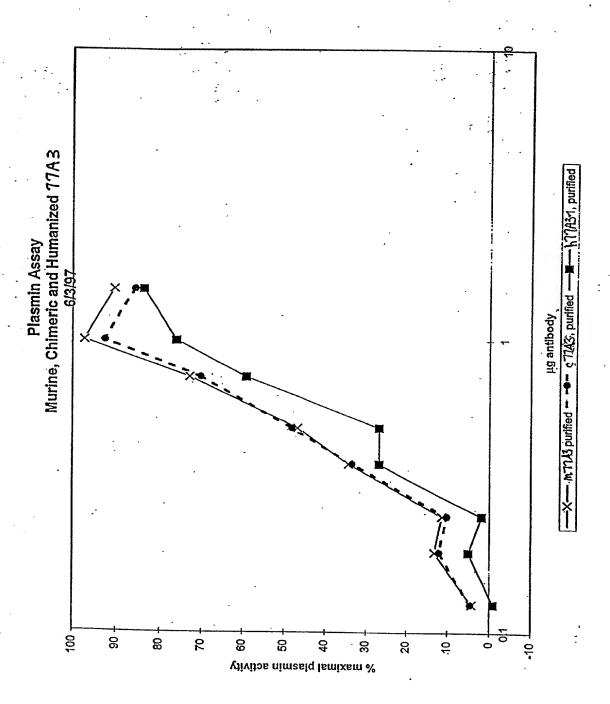
Signal Peptide

Humanized (aa) Humanized nt (entres) Humanized nt (entl-sense)	h77A3-1	M S V L T Q V L A L L L L W L T G A R C AND ACT CAS CATE CAS CATE CAS CATE CAS CATE CAS	•
Humanized (2.9) Humanized at (anti-aerse)	, h.77/A3:-:	QIQLVQSGSLXXXPGASVXISCXABGCCXAAAGCCXAAAGCCXAAAAGCCXAAAAGCCXAAAAGCCXAAAAGCCXAAAAAAAA	¥:a(0
Humanized (aa) Humanized nt (antesense) Humanized nt (antesense)	h77A3-1	G L E W M G W I N T	18
Humanized (e.g.) Humanized nt (sense) Humanized nt (anti-sense)	h77A3-1	KAEDTAVYFCARWVPGT  W. STORE DTAVYFCARWVPGT  W. STORE STORE STAN AND AND GOT STAN STAN STAN STAN STAN STAN STAN STA	

# h7743~2 HEAVY CHAIN SEQUENCES

Signal Peptide

COM TOTO COM TOTO COTO COTO COTO COTO CO	GASVKISCKASGOTTE CON AND OCT TOTAL T	K S G E P T Y A E E F K G R F T F T L D T S T S T A Y L E I R S L  No and con one and and the knot con term and the knot con term and term	H3 Loop  V Y F C A R W V P G T  FOR ANY AND ANY COST ANY AND ANY COST ANY COST ANY COST ANY
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h77A3 2	h77A32	KTTA 3 22	h77A3.2
Humanized (aa) Humanized m (sense) Humanized m (ant-senge)	Humanized (aa) Humanized nt (sense) Humanized nt (anthsense)	Humanized (aa) Humanized nt (sense) Humanized nt (anti-sense)	Humanized (sa.) Humanized nt (sense) Humanized nt (anti-sense)



# Figure 21

# α2-antiplasmin antibody light chain sequences

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77A3/49C9 consensus

all

Figure 2 antiplasmin antibody heavy chain sequences Q I Q L V Q S G S E L K K P G A S V K I S C K A S Q Y T F T N Y GMNWVRQAPGQ GMNWVRQAPGQ h77A3-1 h77A3-2 QIQLVQSQPELKKPGETVKISCKASGYTFTNY QIQLVQSGPELKKPGETVKISCEASGYTFTNY QIQLVQSGPELKKPGETVKISCKASGYTFTKY GMNWVKQAPGK GMNWVKQAPGK GMNWVKQAPGK m77A3 m49C9 m70B11 QIQLVQSQXEXKKPQASVKISCKASGYTFTNY QIQLVQSQPELKKPGETVKISCXASGYTFTNY QIQLVQSGPELKKPGETVKISCXASGYTFTNY QIQLVQSGXEXKKPGXXVKISCXASGYTFTXY GMNWVRQAPGQ GMNWVKQAPGK GMNWVKQAPGK GMNWVXQAPGX humanized consensus murine consensus 77A3/49C9 consensus all H2 Loop KSGEPTYAEEFKGRFVFSLDTSVSTAYLQISSL KSGEPTYAEEFKGRFTFTLDTSTSTAYLEIRSL GLEWMGWINT GLEWMGWINT h77A3-1 h77A3-2 KSGEPTYAEEFKGRFAFSLETSASTANLQIKNL KSGEPTYAEEFKGRFVFSLETSASTAHLQIKNF NSGEPTYAEEFKGRFAFSLETSASTAYLQINNL GLKWMGWINT GLKWMGWINT GLKWMGWINT m77A3 m49C9 m70B11 KSCEPTYAEEFKORFXFXLDTSXSTAYLXIXSL XSCEPTYAEEFKORFXFSLETSASTAXLQIXNX KSCEPTYAEEFKORFXFSLETSASTAXLQIKNX XSCEPTYAEEFKORFXFXLXTSXSTAXLXIXXX GLEWMGWINT GLKWMGWINT GLKWMGWINT GLXWMGWINT humanized consensus murine consensus .77A3/49C9 consensus H₃ Loop 9 YAMDYWGQGTTVTVSS YAMDYWGQGTTVTVSS KAEDTAVYFCARWYPGT h77A3-1 h77A3-2 YAMDYWGQGT8VTVSS YAMDYWGQGTSVTVSS YAMDYWGQGTSVTVSS KNEDTATYFCARWVPGT RNEDTATYFCARWVPGT KNEDSATYFCARWVPGT m77A3 m49C9 m70B11 YAMDYWGQGTTVTVSS YAMDYWGQGTSVTVSS YAMDYWGQGTSVTVSS YAMDYWGQGTXVTVSS XXXDTAVYFCARWYPGT XNEDXATYFCARWYPGT XNEDTATYFCARWYPGT humanized consensus murine consensus

XXXXXXXYFCARWVPGT